

FIG. 1

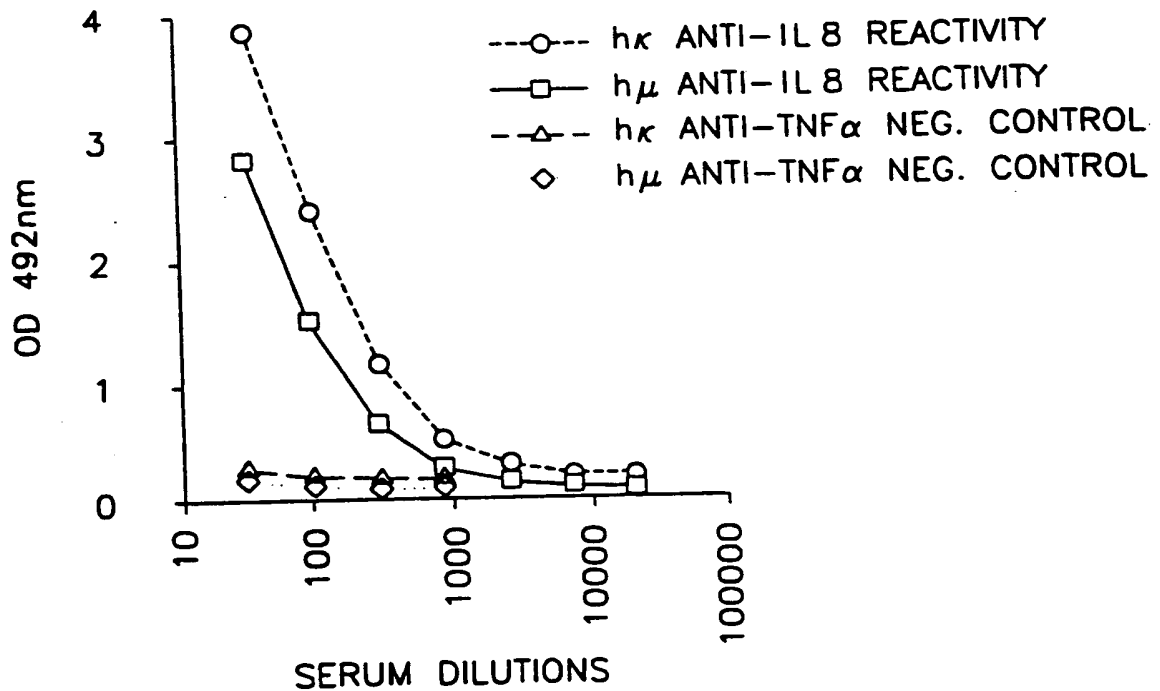


FIG. 2

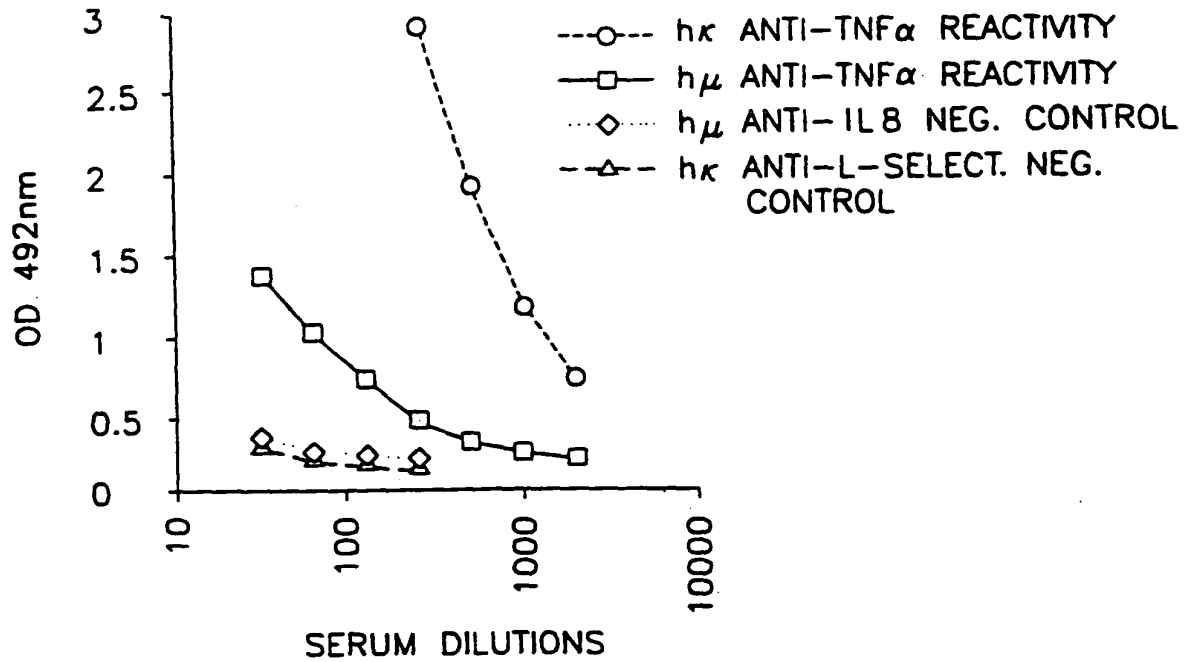


FIG. 3

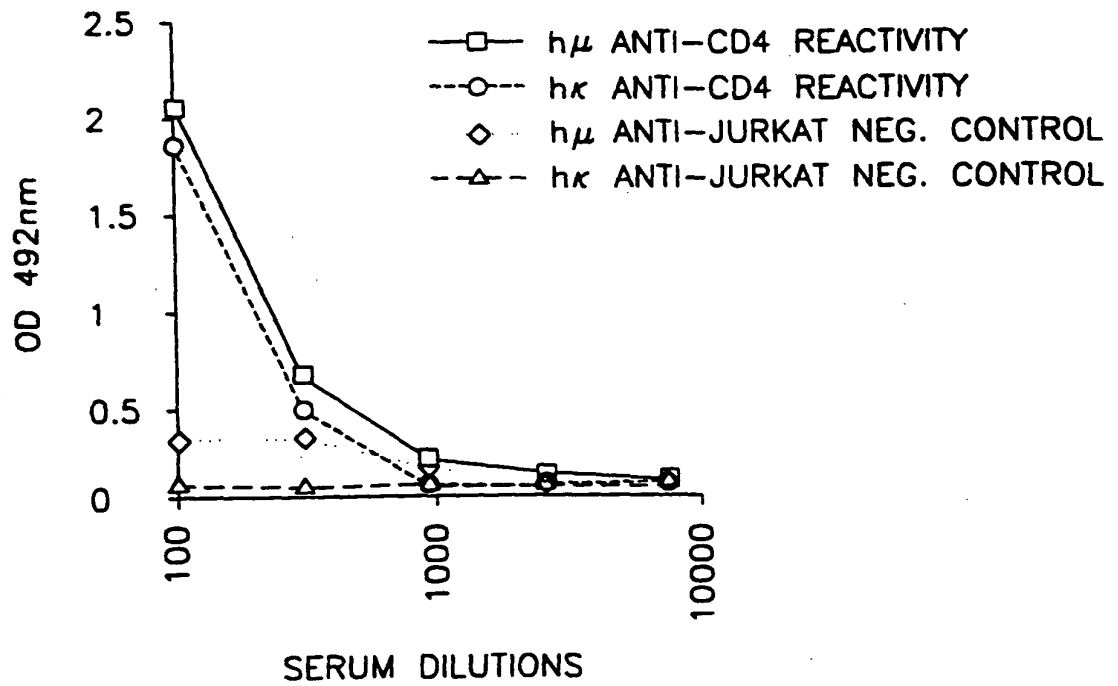


FIG. 4

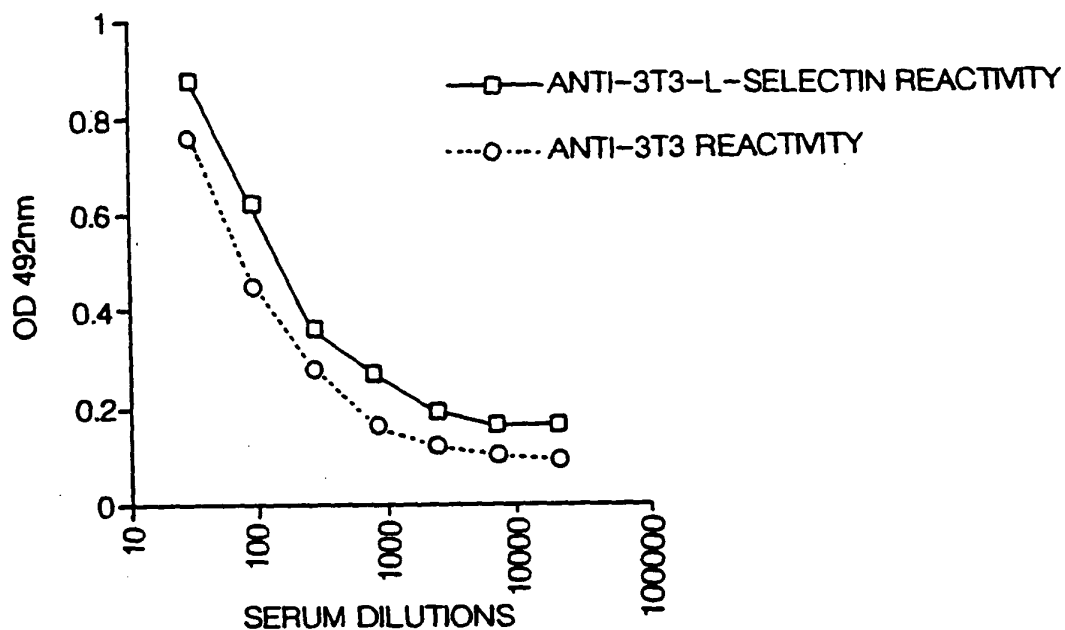


FIG. 5

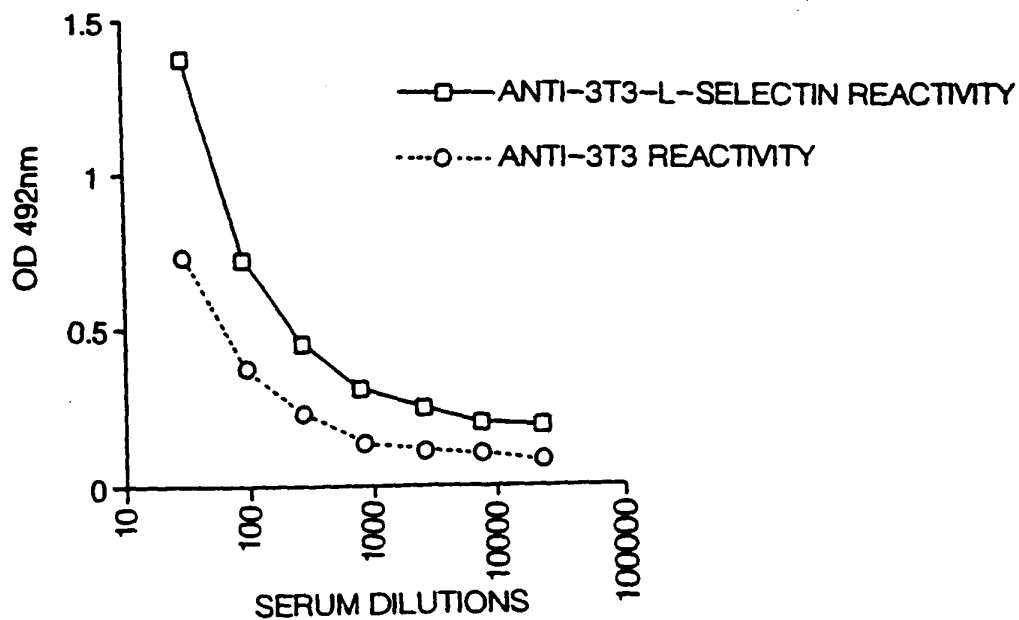


FIG. 6

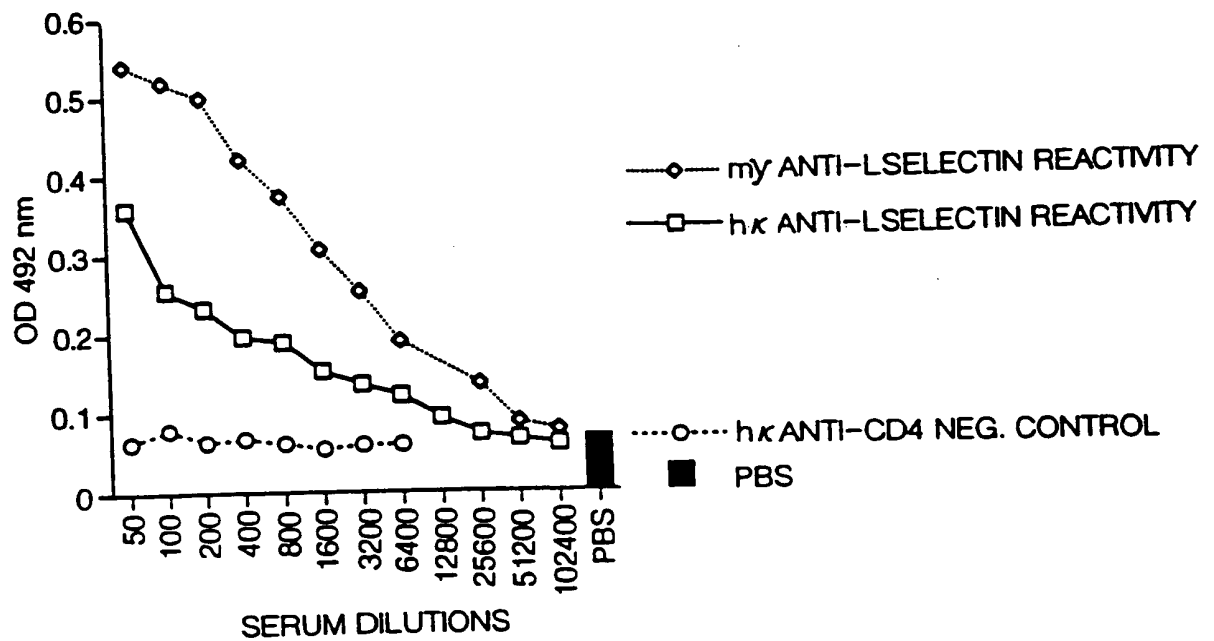


FIG. 7

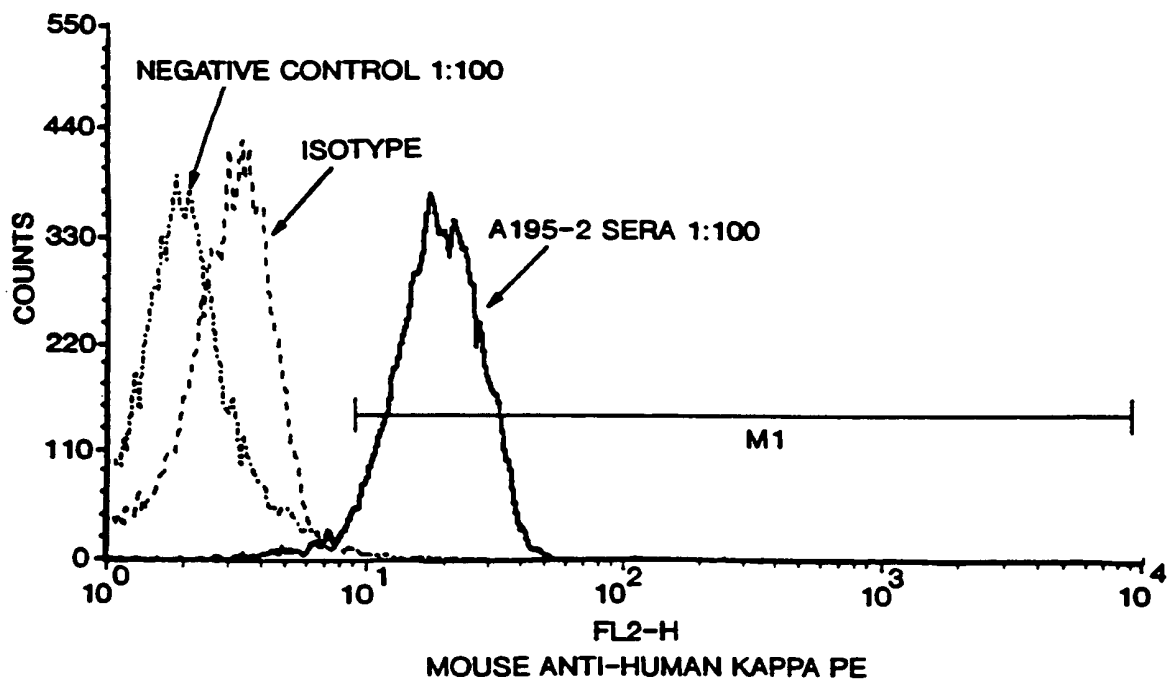
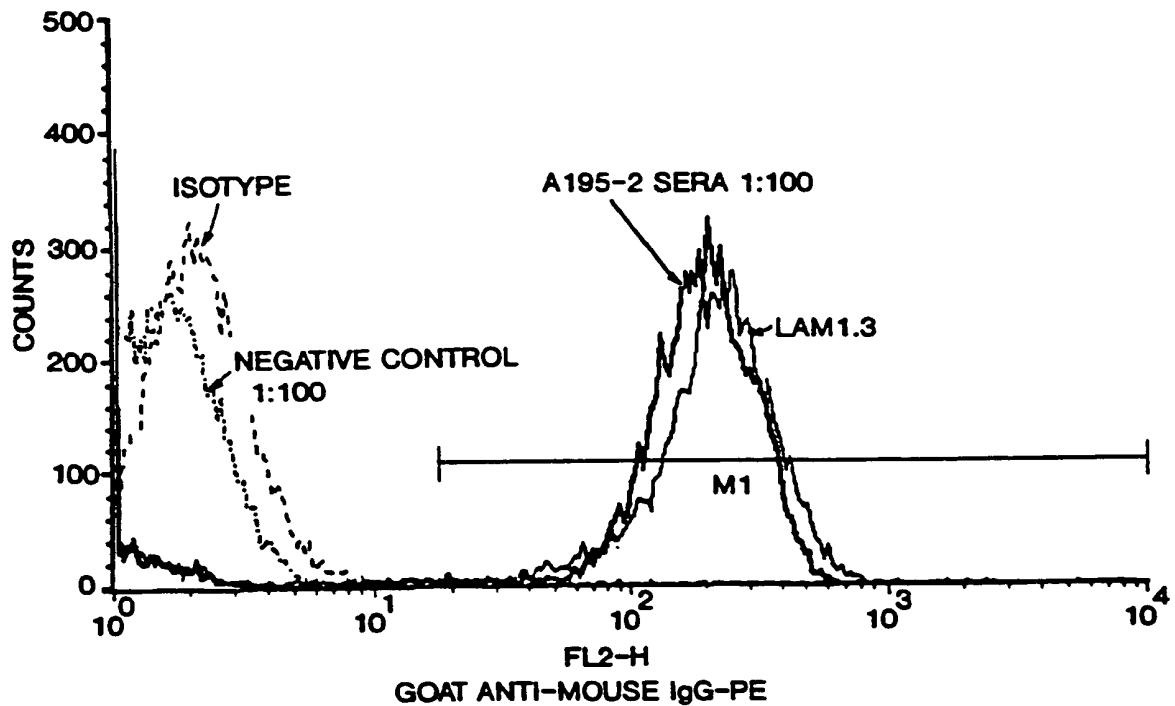
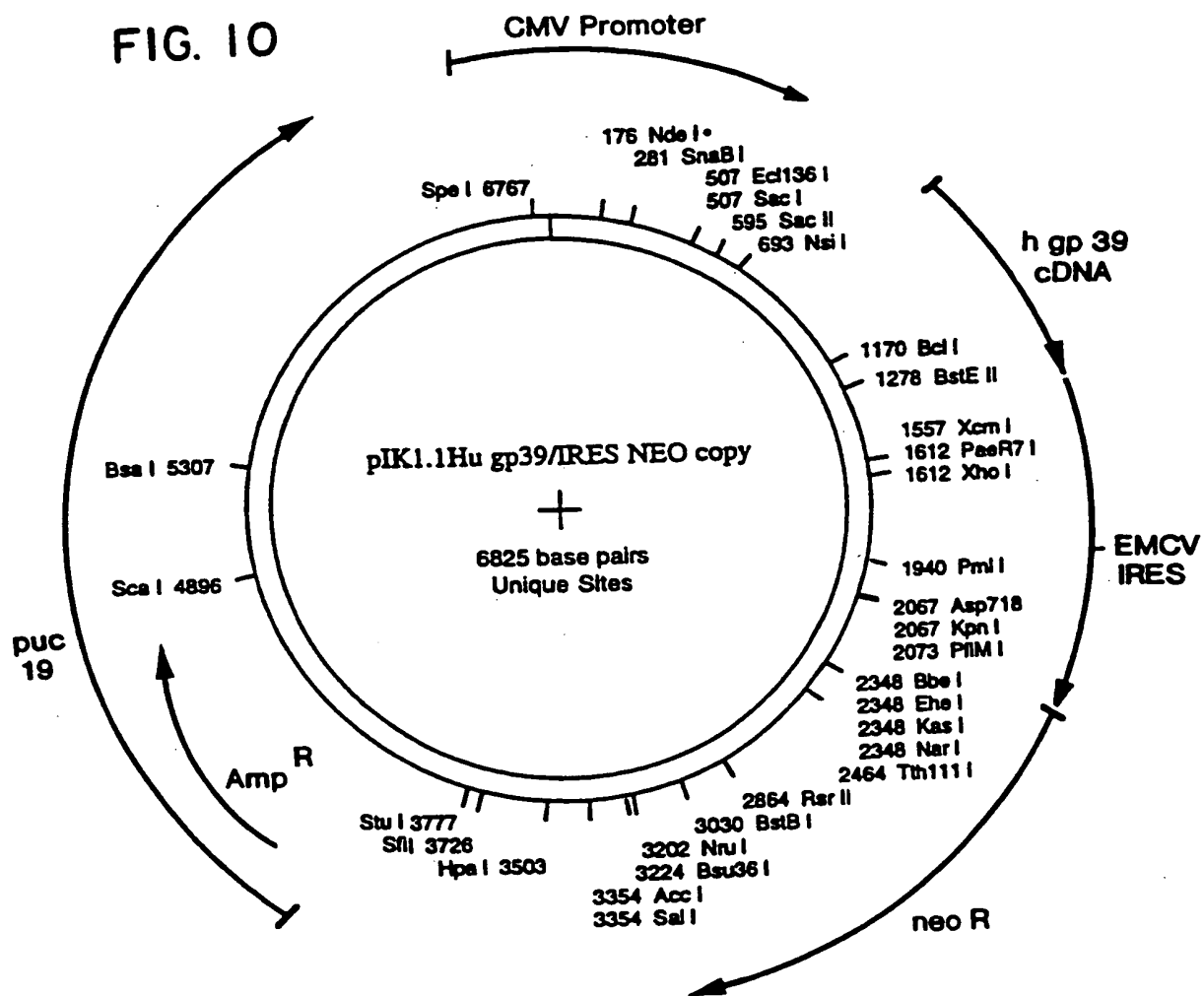


FIG. 10



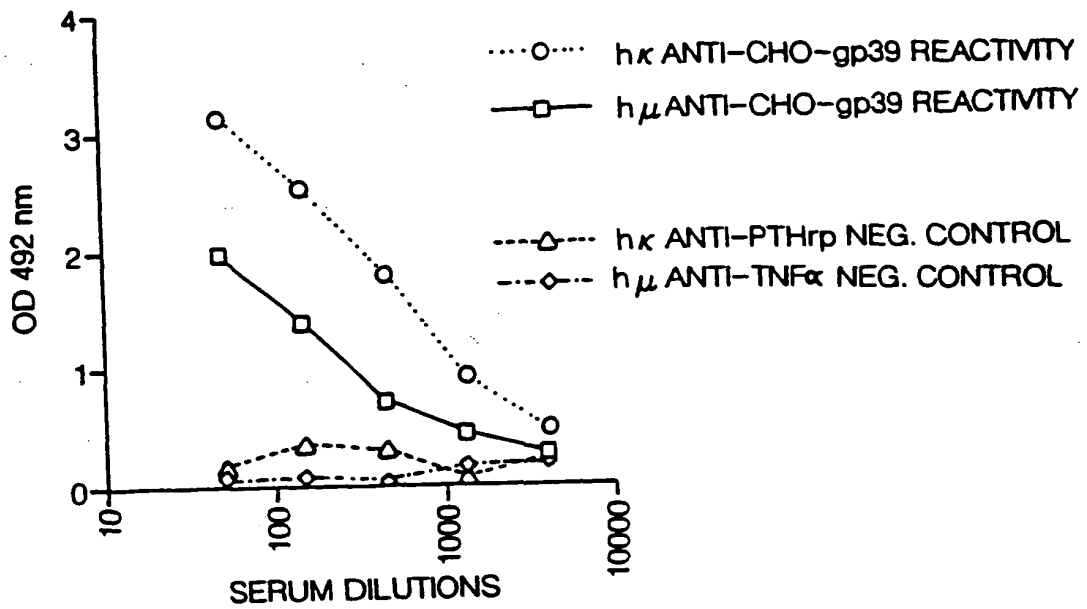


FIG. II

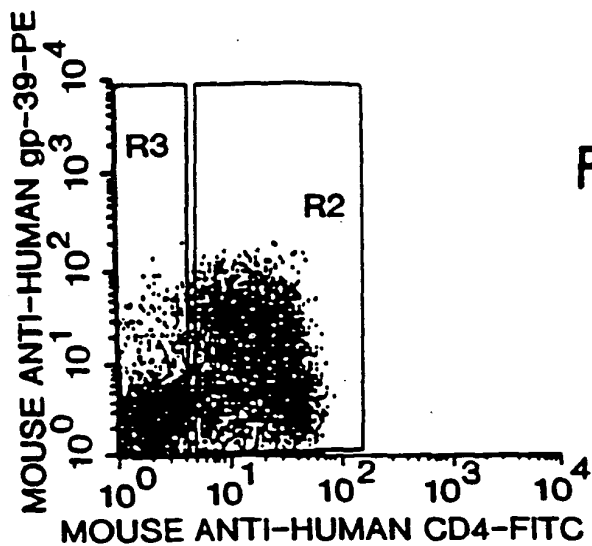


FIG. 12A

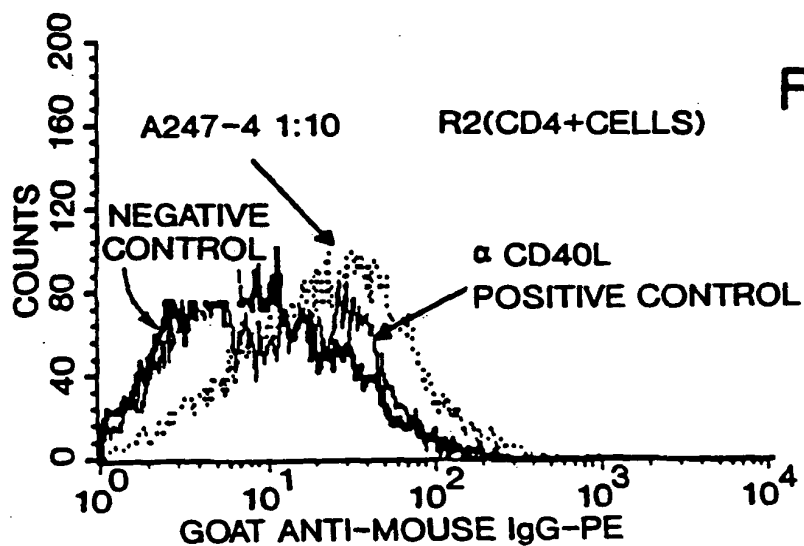


FIG. 12B

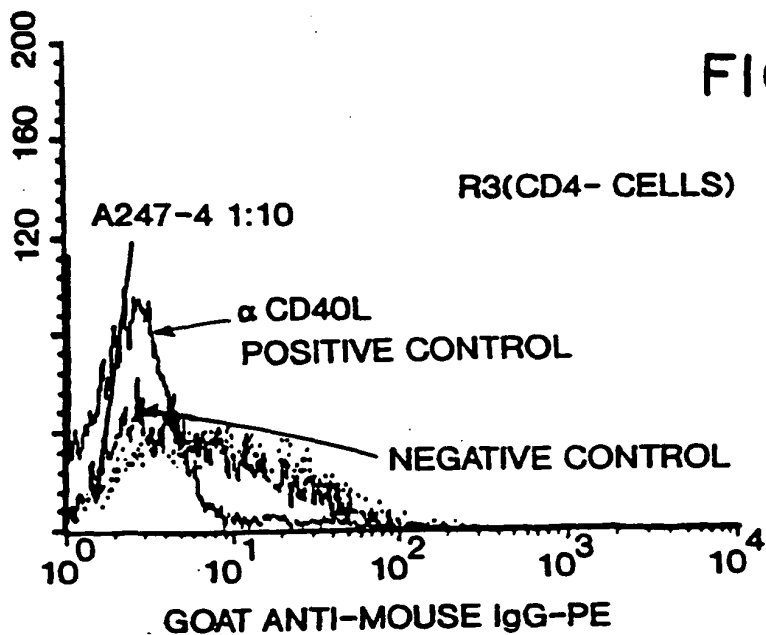
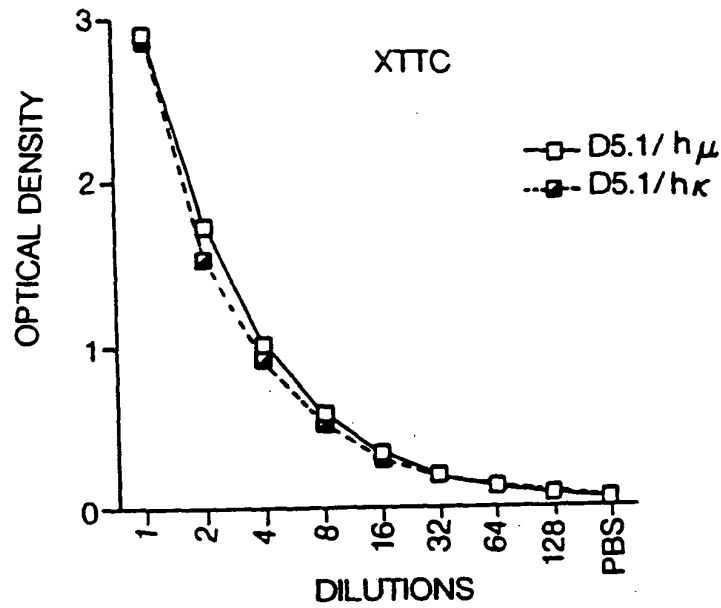
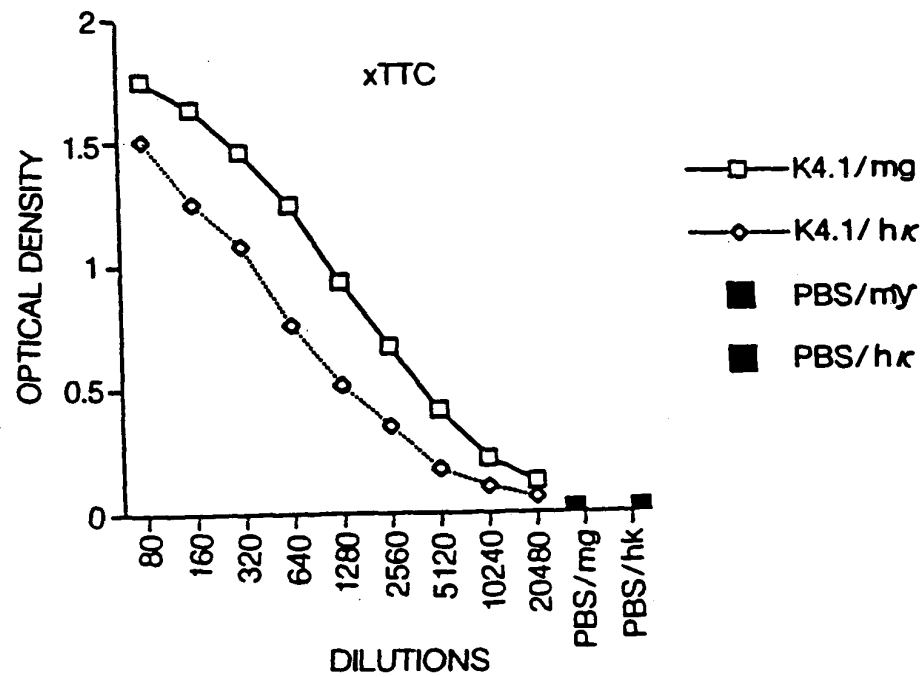


FIG. 12C





**FIG. 13**



**FIG. 14**

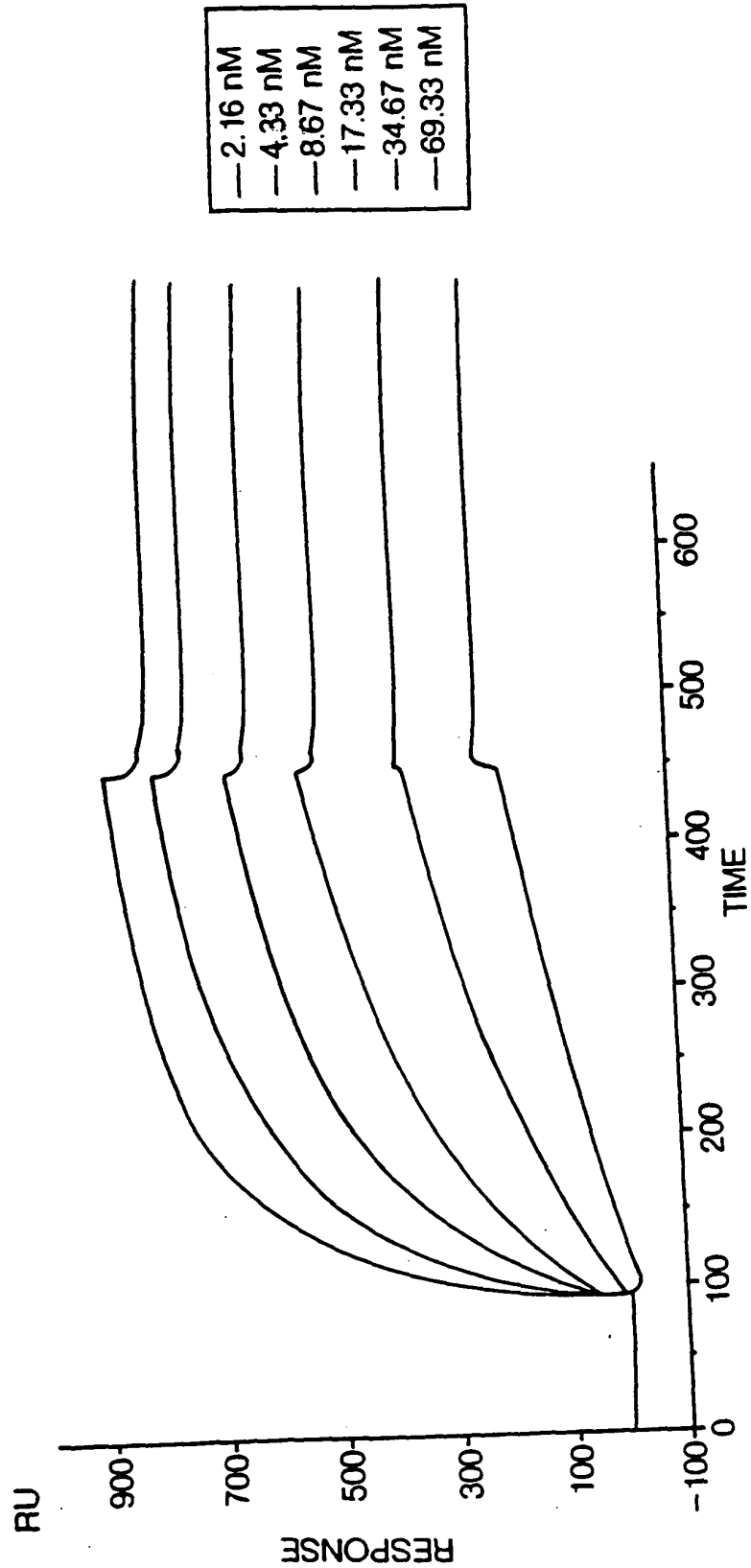


FIG. 15

Applicants: Raju Kucheralapati et al. Docket No.: Cell 4.8CON  
Application No.: Not yet assigned Filed: Concurrently Herewith  
Confirmation No.: Not yet assigned  
For: HUMAN ANTIBODIES DERIVED FROM IMMUNIZED  
XENOMICE  
Agent: R. Minako Pazdera, Reg. No. 46,984 Sheet 11 of 17

Germ line VH6	AGACCCCTCIC	ACTCACCTGT	GCCATCICCG	GGGACAGTGT	CICTAGCAAC	50
Hybr doma K4.1.6	AGACCCCTCIC	ACTCACCTGT	GCCATCICCG	GGGACAGTGT	CICTAGCGAC	50
Germ line JH4	-----	-----	-----	-----	-----	
Germ line D(N1)	-----	-----	-----	-----	-----	
	CDR1	CDR2		VH6		
Germ line VH6	AGTGCCTCTT	GGAACTGGAT	CAGGCAGTCC	CCATCGAGAG	GCCCTTGAGTG	100
Hybr doma K4.1.6	AGTGCCTCTT	GGAACTGGAT	CAGGCAGTCC	CCATCGAGAG	GCCCTTGAGTG	100
Germ line JH4	-----	-----	-----	-----	-----	
Germ line D(N1)	-----	-----	-----	-----	-----	
			VH6			
Germ line VH6	GCTGGGAAGG	ACATACTIACA	GGTCCAAAGTG	GTATAATGAT	TATGCAGTAT	150
Hybr doma K4.1.6	GCTGGGAAGG	ACATACTIACA	GGTCCAAAGTG	GTATAATGAT	TATGCAGTAT	150
Germ line JH4	-----	-----	-----	-----	-----	
Germ line D(N1)	-----	-----	-----	-----	-----	
			VH6			
Germ line VH6	CTGTGAAAAG	TCGCAATACC	ATCAACCCAG	ACACATCCAA	GAACCAAGTTC	200
Hybr doma K4.1.6	CTGTGAAAAG	TCGCAATACC	ATCAACCCAG	ACACATCCAA	GAACCAAGTTC	200
Germ line JH4	-----	-----	-----	-----	-----	
Germ line D(N1)	-----	-----	-----	-----	-----	
			VH6		CDR3	
Germ line VH6	TCCCTGCAGC	TGAACCTCIGT	GACTCCCGAG	GACACGGCTG	TATTATTACTG	250
Hybr doma K4.1.6	TCCCTGCAGC	TGAACCTCIGT	GACTCCCGAG	GACACGGCTG	TATTATTACTG	250
Germ line JH4	-----	-----	-----	-----	-----	
Germ line D(N1)	-----	-----	-----	-----	-----	
			VH6			
Germ line VH6	TGCAAGAGA-	ATAGCGGCAG	CTGGTACCCT	CTTTGACTAC	TGGGGCCAGG	259
Hybr doma K4.1.6	TGCAAGAGA-	ATAGCGGCAG	CTGGTACCCT	CTTTGACTAC	TGGGGCCAGG	300
Germ line JH4	-----	-----	-----	-----	-----	22
Germ line D(N1)	-----	-----	-----	-----	-----	21
	GGGT	ATAGCAGCAG	CIGGTAQ			
		DN1			JH4	

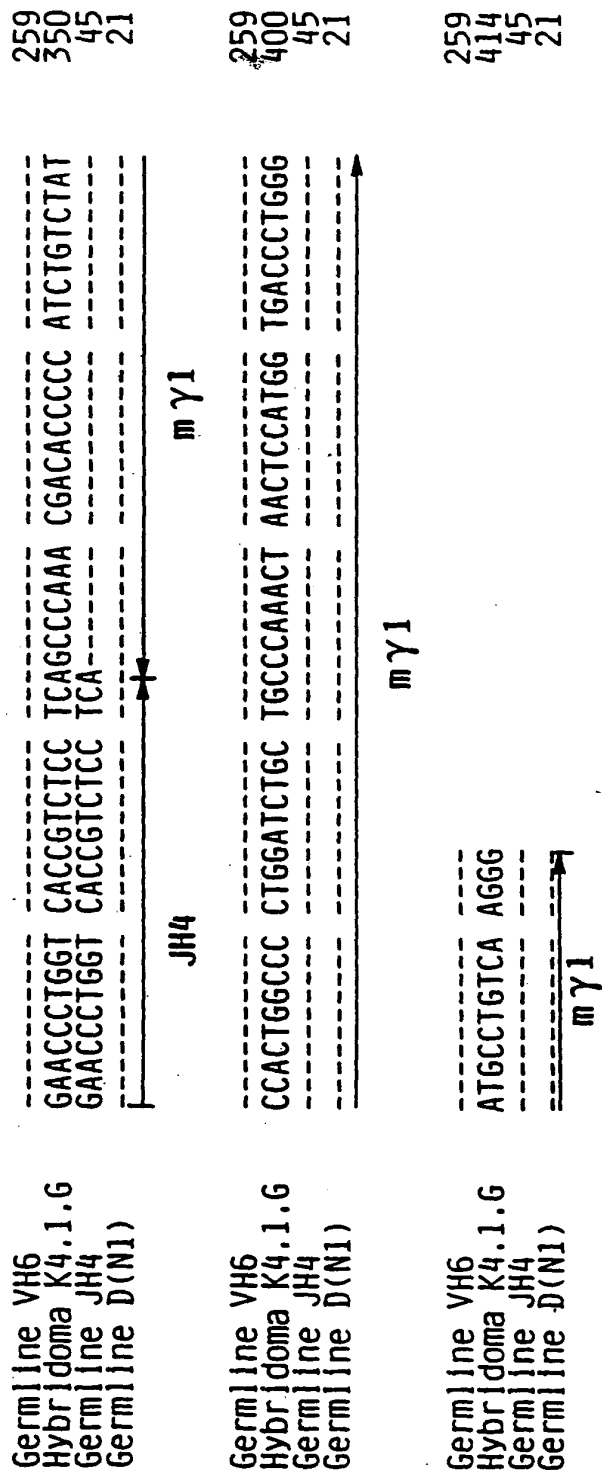


FIG. 16B

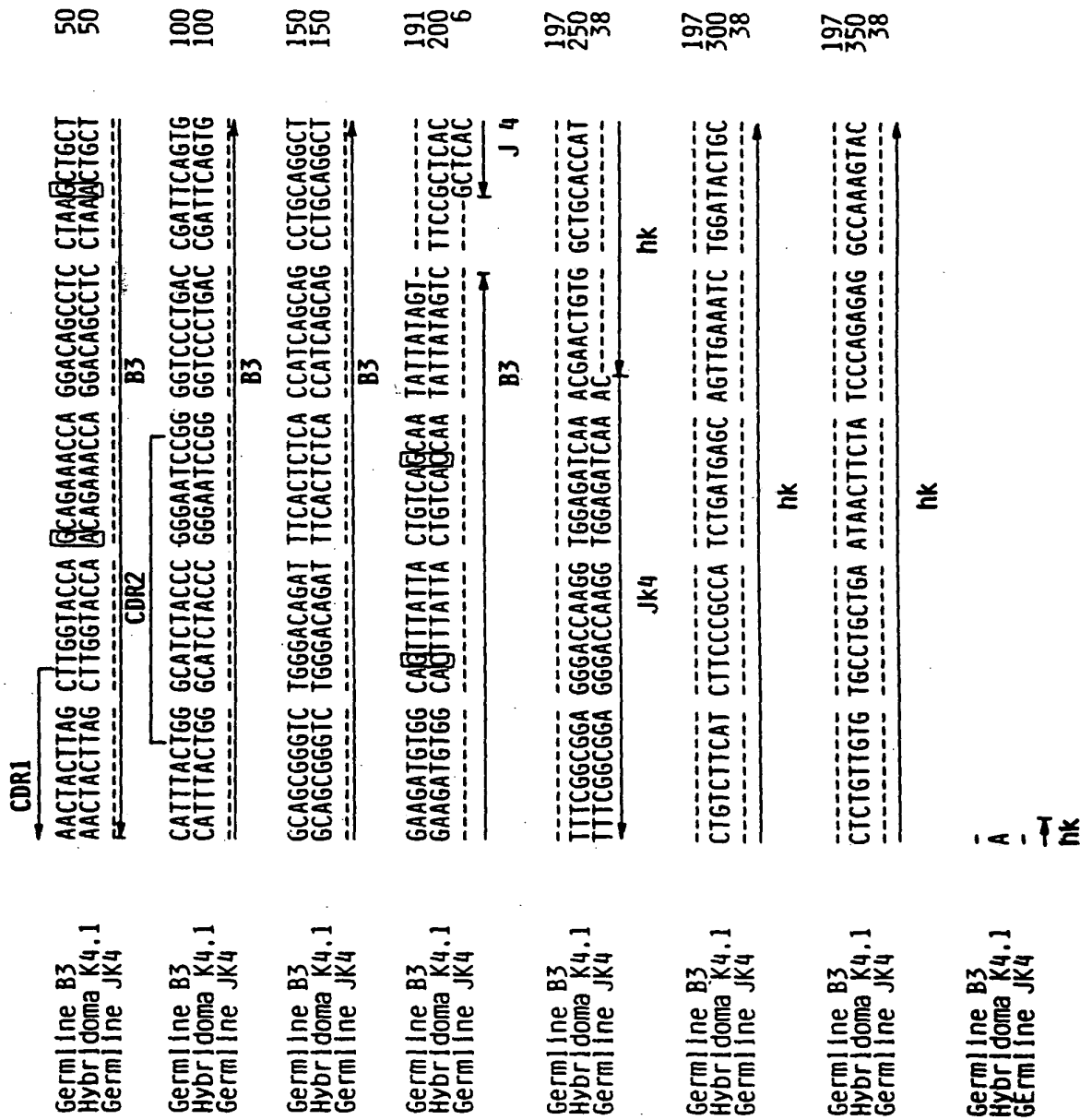


FIG. 17

**FIG. 18A**

**FIG. 18A**

Germ line VH6	TCCC	TGCAGC	TGAAC	TCTGTG	GACTCCCGAG	GACACGGCTG	TGTATTACTG
Hybr doma D5.1.4	TCCC	TGCAGC	TGAAC	TCTGTG	GACTCCCGAG	GACACGGCTG	TGTATTACTG
Germ line JH4	-----	-----	-----	-----	-----	-----	-----
Germ line D(N1)	-----	-----	-----	-----	-----	-----	-----
Germ line hMu	-----	-----	-----	-----	-----	-----	-----
	<hr/> VH6 <hr/>						
Germ line VH6	TGCAAGAGA-	ATAGCAGTGG	CTGGCGTCCT	CITTTGACTGC	TGGGGGCCAGG		
Hybr doma D5.1.4	TGCAAGAGAT	ATAGCAGTGG	CTGGCGTCCT	CITTTGACTGC	TGGGGGCCAGG		
Germ line JH4	-----	-----	-----	CITTTGACTAC	TGGGGGCCAAG		
Germ line K(N1)	-----	-T ATAGCAGCAG	CTGG-	-----	-----		
Germ line hMu	-----	-----	-----	-----	-----		
	<hr/> VH6      DN1      JH4 <hr/>						
Germ line VH6	GAACCCTGGT	CACCGICICC	TCAGGGAGTG	CATCCGCCCC	AACCCITTTT		
Hybr doma D5.1.4	GAACCCTGGT	CACCGICICC	TCAGGGAGTG	CATCCGCCCC	AACCCITTTT		
Germ line JH4	-----	-----	-----	-----	-----		
Germ line D(N1)	-----	-----	-----	-----	-----		
Germ line hMu	-----	-----	-----	-----	-----		
	<hr/> JH4      hμ <hr/>						
Germ line VH6	CCCCTCGTCT	CCTGTGAGAA	TTCCTCCGTCG	GATACGAGCA	GCGTGGCCGT		
Hybr doma D5.1.4	CCCCTCGTCT	CCTGTGAGAA	TTCCTCCGTCG	GATACGAGCA	GCGTGGCCGT		
Germ line JH4	-----	-----	-----	-----	-----		
Germ line D(N1)	-----	-----	-----	-----	-----		
Germ line hMu	-----	-----	-----	-----	-----		
	<hr/> JH4      hμ <hr/>						

**FIG. 18B**

Germ line B3	GACATCGTGA	TGACCCAGTC	TCCAGACTCC	CTGGCTGTGT	CTCTGGGGCGA
Hybridoma D5.1.1.4	-----	-----	-----	-----	-----
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
Germ line B3	GAGGGCCACC	ATCAACTGCA	AGTCCAGCCA	GAGTGTTTTA	TACAGCTCCA
Hybridoma D5.1.1.4	-----	-----	-----	-----	-----
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
Germ line B3	ACAATAAGAA	CTACTTAGCT	TGGTACCAGC	AGAAACCAGG	ACAGCCTCCT
Hybridoma D5.1.1.4	-----	-----	-----	-----	-----
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
Germ line B3	AAGCTGCTCA	TTTACTGGGC	ATCTACCCGG	GAATCCGGGG	TCCCTGACCG
Hybridoma D5.1.1.4	-----	-----	-----	-----	-----
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
Germ line B3	ATTCAGTGCC	AGCGGGTCTG	GGACAGATTT	CACTCTCACC	ATCAGCAGCC
Hybridoma D5.1.1.4	-----	-----	-----	-----	-----
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----

FIG. 19A



Germ line B3	TGCAGGCTGA	AGATGTGGCA	GTATTACT	GTCAGCAATA	TTATAGTACT
Hybridoma D5.1.4	TGCAGGCTGA	AGATGTGGCA	GTATTACT	GTCAGCAATA	TTATAGTACT
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
	B3				
Germ line B3	CC-----	TCGGCCCTGG	GACCAGAGTG	GATATCAAAC	GAACGTGTGGC
Hybridoma D5.1.4	CCATTCAATT	TCGGCCCTGG	GACCAGAGTG	GATATCAAAC	GAACGTGTGGC
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
	JK3				
Germ line B3	TGCACCATCT	GTCTTCATCT	TCCCGCCATC	TGATGAGCAG	TTGAAATCTG
Hybridoma D5.1.4	TGCACCATCT	GTCTTCATCT	TCCCGCCATC	TGATGAGCAG	TTGAAATCTG
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
	CK				
Germ line B3	GAAC TGCCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
Hybridoma D5.1.4	GAAC TGCCTC	TGTTGTGTGC	CTGCTGAATA	ACTTCTATCC	CAGAGAGGCC
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
	CK				
Germ line B3	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGT	GGGGAAAA
Hybridoma D5.1.4	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGT	GGGGAAAA
Germ line JK3	-----	-----	-----	-----	-----
Germ line CK	-----	-----	-----	-----	-----
	CK				

FIG. 19B